

## METHOD AND APPARATUS FOR RESOLVING HALF DUPLEX COLLISIONS

5

### **Abstract Of The Disclosure**

A method and apparatus resolves message collisions in wireless TDMA packet systems for subscribers that communicate in half duplex modes. In one embodiment, a wireless TDMA network element (100) includes at least one processing device  
10 (104) and memory (106), operatively coupled to the processing device (104). The processing device (104) divides an outbound message (300) designated for a first subscriber and produces therefrom an independent first message portion (such as an independent short message) (302) and an independent second message portion (such as an independent longer remaining message) (304). Each of the independent first  
15 and second message portions (302,304) are allocated to two different wireless outbound reservations for a common subscriber. The independent first message (302) is transmitted first. If a collision is detected, the wireless network element (100) avoids sending the independent second portion (304) to the first subscriber, otherwise the independent second message portion (304) is subsequently sent.